

Annual Report Issue January 1960

From the President



*Dr. Francis Henry Brown,
founder of Children's Hospital.*

This year marks the Ninetieth Anniversary of the founding of The Children's Hospital. It is a milestone in which we take justifiable pride, for from the beginning our name has stood for the best in pediatric care, teaching and research. The Ninetieth was happily celebrated in September when some five hundred Alumni, and Alumnae of the School of Nursing, returned to renew old ties and to join in a two-day program of medical and nursing symposia.

The year has also seen a merger of The Children's Hospital and The Children's Medical Center into a single corporation with a new name: The Children's Hospital Medical Center. This is a logical and important step in our evolution as a truly integrated medical center. It provides legal framework for our operational oneness and ends the ambiguity of dual names, dual boards and the holding of dual property. We may now look forward to still more effective development of all our services.

For the far-sighted organization of The Children's Medical Center and the leadership which shaped its brilliant development we must thank the late John Wells Farley, former Chairman of the Hospital and President of The Children's Medical Center. The evolution of the new Children's Hospital Medical Center is a tribute to his vision and determination. It is poignant indeed that his death, in March 1959, should have occurred just a few months before this was finally achieved. Few have given so much of themselves for others as did "Mike" Farley. His memory will always be an inspiration to those who have the privilege of helping to carry his work forward.

Our new Director, Joseph P. Greer, who came to us in May from St. Luke's Hospital in Chicago, has already displayed his exceptional qualifications for a difficult and challenging post. His keenness and incisiveness are happily matched by his warmth and judgment in human relations. He has already tackled several knotty problems confronting us and I am confident that the coming year will see us on the way to a solution of them.

In our ninetieth year we look backward with pride and ahead with optimism. The last ten years have seen momentous developments in which The Children's Hospital and its affiliates have played significant roles. We know that in ten years, when we celebrate a century of service to children, there will have been further great medical advances contributing to their increased welfare, thanks to the staff and facilities of Children's Hospital Medical Center.

The life-saving work of the Hospital is made possible by you, our friends, who lend us so much interest and support. With your continued help the challenges of the future will be met.

*William W. Wolbach
President*

We change our name

Last May the Massachusetts legislature passed an Act authorizing consolidation of The Children's Hospital and The Children's Medical Center, Inc. under the name of The Children's Hospital Medical Center. The new name became our legal one on November twentieth when the members of both Corporations voted unanimously to accept the Act.

The new name strengthens the concept of complete care for children which prompted incorporation of The Children's Medical Center in 1948. Since then a total of ten institutions, all concerned with the care and treatment, medical education and research for the welfare of the young have been integrated or affiliated with the Center, The Children's Hospital being the nucleus.

The Infants' Hospital, the Hospital and Convalescent Home for Children, the Sharon Sanatorium, the Association of the House of the Good Samaritan, the Charitable Surgical Appliance Shop and the Sarah Fuller Foundation for Little Deaf Children and The Children's Hospital have been working together for some time as one integrated group. The recent legislation permits these constituent organizations, by voting within two years to consolidate with The Children's Hospital Medical Center, to unite more closely for the sake of reducing the number of meetings, audits and other processes which have been necessary for conducting the business of the Medical Center.

Three other units are operationally independent of The Children's Hospital Medical Center, though still affiliated: The Children's Cancer Research Foundation, The Children's Mission to Children, and the Judge Baker Guidance Center.

These organizations remain affiliated for the interchange of consultations, professional personnel, and cooperation in research programs. The medical services of The Children's Hospital Medical Center are available to them all, and together we continue to work toward our traditional goal: the health and welfare of all children everywhere.

From the Director

During the past year there have been a number of significant changes at the Hospital. The first, and probably most important, was the reopening of the House of the Good Samaritan as a convalescent unit in late November, 1958 after considerable renovation. In February, 1959 the Hospital and Convalescent Home in Wellesley was closed and the patients in the Mary MacArthur Memorial Respirator Unit were transferred to the House of the Good Samaritan. Since then the Wellesley property has been sold to Babson Institute.

Another notable addition to the Hospital has been the building of a new Blood Bank. This was made possible by the Charles H. Hood Dairy Foundation in memory of Charles H. Hood and Katherine W. Hood. Planned to meet our need for the preparation of more than 14,000 units of blood per year, and the requirements of blood supply and preparation for daily open-heart surgery, our new Blood Bank is, in my opinion and in the opinion of experts in the field, the finest anywhere in the world.



The construction of the new Blood Bank released two areas of the Hospital for badly needed expansion of other services: the old Blood Bank on the eighth floor of the Blackfan Street building and the Blood Donor room in the Longwood Avenue building. The old Blood Bank area will provide additional space for Central Services, to which so many new techniques and procedures have been added that its present quarters are totally inadequate. The old Blood Donor Room will be used to enlarge the Pharmacy. If this space had not become available, we would have had to spend a great deal more money to construct a new Pharmacy to meet Board of Health requirements.

A much needed addition to our research program has been the conversion of one floor of the Carnegie Building into an up-to-date Surgical Research Laboratory with new animal quarters. This provides us with the necessary space to carry out research and to develop new techniques in the field of surgery. The area has recently been inspected by the Department of Public Health, and because of its excellence they have requested permission to send persons from other hospitals to inspect the laboratory and animal quarters.

Let us now turn to the future. Although I have no crystal ball, there are certain goals we must set. These, by tradition, in an institution such as Children's, are affected by the past. The eminent reputation of our Hospital for patient care, education and research must be maintained. This is not easy in our present day economy. No institution can continue year after year to operate with a half or three quarter million dollar deficit without risking the loss of the loyal support of its friends and benefactors.

In order to prevent this, we must be sure the emphasis is in the right place. The prime responsibility of all hospitals is patient care, and unless we give this we will not maintain our reputation. To give the best patient care we must also conduct educational programs and develop new techniques and methods through research. All three must be in proper proportion in order to maintain a balanced institution. To keep them in proper ratio we must know what each is costing.

Early in June a firm of accountants was retained to help us establish a budget based on an accounting system that would enable us to determine the cost of patient care, teaching and research. Most of the summer months were spent in developing a budget on a basis known as responsibility accounting. Each department head was asked not only to prepare a personnel budget, but also to review all of their activities within the department. We hope that with the new budget controls and responsibility accounting we may reduce expenses and retain our present standards of patient care.

Finally, we must continue to plan for a new Clinical Research building. It is estimated that we have reached the halfway mark in our fund-raising program. Although some planning has been done on this building, we must proceed with caution and with the determination to erect a building which will meet the demands of our present needs and future growth. The deadline for our acceptance of a

Federal grant to help with this construction has been extended another year until June 30, 1961.

Whenever there is a change of administration in any organization there is always a period of apprehension on the part of its staff, as well as adjustments on the part of the new director. I would like to express my appreciation to the Board of Trustees, Women's Committee, Medical Staff and Hospital employees for their cooperation and help in making this transition period as smooth as possible.

Joseph P. Greer
Director

FIVE YEARS — *1955-1959*

The five year period, beginning in 1955, started with exciting anticipation of completion of the new Children's Hospital building. Not forgotten was the then recent irreparable loss to The Children's Hospital in the death of Dr. S. Burt Wolbach, whose association with the hospital covered almost 40 years of devotion, inspiration, and profound scholarship. Fresh was the glow of the Nobel Awards to members of the staff, Drs. John F. Enders, Frederick C. Robbins, and Thomas H. Weller who had just returned from Stockholm where they had been honored for their achievements in the field of virus research, with particular reference to discoveries which made possible the Salk vaccine. The Nobel Award was only one of many recognitions of top achievement in the world of medicine and science which came to the members of the professional staffs at that time, giving formal expression to the acknowledged leadership of the Children's Medical Center throughout the world of pediatrics.

As 1955 passed into 1956 it seemed that not for one day longer could the steadily increasing staff, expanding under the constant need for more care and greater accomplishment, work in quarters so hopelessly inadequate. Finally, on October 5, 1956 the long awaited replacement for the old wards at the Children's Hospital was opened.

One of the great contributions of the new clinical building was the amalgamation of all of the activities of each clinical service into a single efficient unit occupying one large floor, which in some instances ran through the new building and continued in the older Building C. The new quarters for the x-ray department, for example, solved at once the tremendous overcrowding of the old quarters and

made possible far greater efficiency and immediate expansion of diagnostic services, x-ray therapy and research. The new operating rooms corrected the deficiencies of the old with immediate improvement in the results of surgical procedures, the effectiveness of anesthesiology, and protection against infection. A picture of these five years may be gained by mention of a few selected portions of the history of some of the major departments of the Hospital.

Department of Medicine

Death took two of the most distinguished Emeriti — Dr. James L. Gamble in May, 1959 and Dr. Bronson Crothers in July, 1959. Each has left his mark on the history of pediatrics — Dr. Gamble in chemistry, and Dr. Crothers as the pioneer child neurologist.

Members of the department carried on activities in many countries, led by Dr. Janeway, who took sabbatical leave in 1956 and taught pediatrics in eleven countries. The out patient department, which is actually the source of patients for a large part of the hospital, was physically improved. This made possible expansion of services for ambulatory patients and thus permitted improved care and better teaching. It is clear that one great challenge of the immediate future in pediatrics will be more and more in the out patient department. Anticipating this trend, there have been established the medical emergency clinic, the poison center operated for the Massachusetts Department of Health and the local chapter of the American Academy of Pediatrics (600 telephone calls a month are now received), a refurbished out-patient clinic which serves as a pediatric consultation center for children up to 12 years of age, an adolescent unit housed now in Building A in its own quarters, and the child health unit which is operated by an interdisciplinary team pioneering in the education of students and residents in the health supervision of children and in research in the field of medicine for the family as a whole.

In the medical wards of the new building, as on all other services, the new quarters have contributed greatly to the better care of patients and their families, to improved education for students and house staff, and to the comfort and effectiveness of over-worked nurses, doctors, and other members of the hospital family. Clinical research, too, has been facilitated particularly because of the availability of greatly improved arrangements for studies of infectious disease, metabolic, cardiac and neurological problems.

The renovation of the House of the Good Samaritan building in 1958 permits for the first time long term care of children with chronic diseases in direct connection with the main hospital and at lower cost. The number of divisions and groups specializing in the care of infants and children with particular problems, and in research in such areas has increased to include every discipline related to medical problems of the infant, the child, and the adolescent. The opportunities for voluntary collaboration with colleagues in other departments of The Children's Hospital Medical Center and in neighboring institutions, such as the Boston Lying-In Hospital and the Peter Bent Brigham Hospital are invaluable and illustrate the organizational philosophy which led to the development of The Children's Hospital Medical Center. Important contributions to our knowledge in these many specialties have enriched the medical literature and given finer care to our patients. This list includes social and preventive pediatrics, cardiology, rheumatic fever, hematology, neurology, allergy, endocrinology, kidney disease, metabolic disorders, respiratory and neonatal physiology, genetics, adolescent medicine and participation in programs of research in infectious disease and nutritional disorders.

Psychiatry

The seventh major department of The Children's Hospital — Psychiatry — was inaugurated in 1953 under the leadership of Dr. George E. Gardner; simultaneously the Judge Baker Guidance Center headed by him was affiliated with The Children's Medical Center. Thus was established the first and, as yet, the only autonomous department of child psychiatry in the world. In March, 1957, the Judge Baker Center moved into its new building opposite The Children's Hospital. This was made possible by a gift to the Judge Baker Guidance Center of one million two hundred thousand dollars by the Hiram Edward Manville Foundation of New York, with assistance from funds given by the Ford Foundation to The Children's Medical Center. The new building contains facilities for out-patient child guidance work, and two in-patient wards which can care for 28 patients. There is, in addition, a school which conducts a psychiatric day care program. Through Dr. Gardner the professional staff of The Children's Hospital, Department of Psychiatry and the Judge Baker Center carry out the team work structure of the traditional child psychiatry clinic.

There are now 127 professionally trained people

and 55 trainees in the combined unit all of whom are a part of the Harvard Medical School Department of Psychiatry. In addition, professional workers trained in education and in sociology, anthropology, and social psychology are now a part of this combined effort. Relationship has been established for teaching and research not only with the Harvard Medical School but also with the Harvard Departments of Social Relations, the Harvard Schools of Education and Public Health, and the undergraduate instruction of Harvard and Radcliffe students. Within the hospital about 150 children and their parents are receiving intensive psychotherapy at present. Diagnostic and consultation services in both psychiatry and clinical psychology are offered throughout the entire Children's Hospital Medical Center. Research is carried on concerning problems such as anorexia nervosa, school phobias, juvenile delinquency, impairment of the learning processes, and post-natal emotional development.

Plans include closer relationship between child psychiatry and neurology. Coordinated research programs hopefully will be undertaken in the fields of psycho-physiology and pharmacology. The contribution of this department is anticipated, too, in programs of rehabilitation with reference to the effects of disabilities upon personality development.

Neurosurgery

Physical facilities in the operating rooms and neurosurgical wards have been greatly improved. 478 patients were cared for on the hospital wards in 1958 and 421 operations on the brain and spinal cord were performed. This pioneer department of Neurosurgery is responsible, too, for the neurosurgical service of the Peter Bent Brigham Hospital. Research concerning the effect of gamma radiation on the brain and spinal cord and on the physiology of the cerebral spinal fluid, with special reference to problems of hydrocephalus have been responsible for basic contributions to the neurosurgery of early life. The greatest progress in the treatment of brain tumors concerns the slowly growing astrocytomas of the cerebellum, the gliomas of the optic nerve, and papillomata of the choroid plexus. Studies of the cerebro-spinal fluid in relation to hydrocephalus have demonstrated that the cerebral fluid is pumped physically from the large ventricles of the brain by the choroid plexus with consequent revision of clinical management of the patient with hydrocephalus.

The introduction of low temperatures as an adjunct to neurosurgical technic, necessitated a broad

study of the physiological effects of lowering the body temperature. The first book on neurosurgery in childhood, written by Drs. Franc D. Ingraham and Donald D. Matson was based on the work of the department for the past thirty years. Dr. Edgar A. Bering, Jr. is in active charge of the laboratory research programs. Of great importance to the care of the patient and to the breadth of the research and teaching program was the appointment of Dr. John Shillito, Jr. in July, 1958 to the permanent staff of the neurosurgical service.

Surgical Research Facilities

In the fall of 1959 completion of the long awaited additional floor on what was originally known as the Carnegie Building, and alterations of many parts of the surgical research laboratories, represented a transition point in the research productivity of all of the surgical services. New air-conditioned quarters for animals, an exercise area, operating rooms, isolation facilities, chemical and biological research laboratories, fitted specially for radioactive isotope work and new x-ray equipment make possible the much needed expansion of research activities of the several surgical services. It is here that the pioneering operations on the heart, the brain, and other parts of the body are worked out to perfection before they are carried out on children. It is here, too, that the deficiencies in our knowledge in the surgical fields are corrected with the aid of technics of the basic sciences.

Orthopedic Service

The Orthopedic service is founded, as are all of the clinical services of the Hospital on the premise that its first responsibility is the care of the patient and that this responsibility is not restricted to the physical problems of the handicapped. Care of the total patient and complete responsibility for his rehabilitation have long been the guiding principles of the orthopedic service with the final goal of returning the patient, without handicap or with as little handicap as possible, to his proper productive place in society. The greatest epidemic of poliomyelitis in the history of Massachusetts occurred in the late summer and fall of 1955. As many as 215 patients were in the hospital with the acute phase of this disease at one time. More than 1300 patients were cared for before the epidemic had run its course. The team work of the orthopedic and medical services, with the aid of the nurses, the physiotherapists, and

the entire Hospital family will go down as one of the most remarkable achievements in the history of The Children's Hospital Medical Center. Dr. William T. Green's department, long the center for poliomyelitis in this part of the world, since the time of Dr. Robert Lovett, can look ahead to many years of corrective procedures for the rehabilitation of patients seen in this 1955 epidemic alone. Almost 30 patients with the acute phase of poliomyelitis are in The Children's Hospital at the present time. Great strides in prevention by vaccine have been of unquestionable value, but the final solution of the poliomyelitis problem has not yet been achieved.

The Mary McArthur Respiratory Unit was moved to the House of the Good Samaritan in November, 1958, making possible closer contact with the Center's services not only of the Orthopedic Department but also of the medical, and all other divisions of the Hospital which are concerned with the overwhelming problems presented by these patients. A study unique in the pediatric world concerned with the normal and disturbed growth in the extremities has been carried on for almost 30 years under Dr. Green's direction. Its major contribution has been the development of a technic for the prediction of growth which makes it possible to correct discrepancies in the length of the lower extremities produced when growth is modified through operative procedures. The tables of basic information and the technics employed are in standard use throughout the world.



Studies in circulatory changes and disturbance in growth have been continued during these past 5 years, as have long term evaluation of the role of surgery in the treatment of cerebral palsy. The head of the department has served as President of the American Academy of Cerebral Palsy, of the American Academy of Orthopedic Surgery, and of the American Board of Orthopedic Surgery during the past five years.

The research activities of the orthopedic department include cooperative studies with the tumor therapy division and the x-ray department in the treatment of malignant bone tumors, with the first encouraging results in a long experience. A large program carried on in the orthopedic department, with the cooperation of the Children's Cancer Research Foundation, concerns the basic studies of the tissue reactions to metal, both in animals and in humans. The greatly increased use of metals in the correction of injuries or abnormalities in the human body, as for example in joints or bones, has raised serious questions concerning the later effect upon the patient. These studies, carried out in part with the collaboration of scientists at Massachusetts Institute of Technology, have resulted in important improvements in the composition of metals employed in clinical work. Dr. Jonathan Cohen's studies on metals have paralleled his research on the basic structure of bone. His models of Haversian systems have illuminated the intricate mechanical and development relationships within the complex structure of the human skeleton.

Two distinguished members of the Orthopedic Service who rendered faithful and invaluable service to the hospital for many years, retired during the past two years — Dr. Albert H. Brewster and Dr. Robert H. Morris. Dr. David Grice, associated with Dr. William T. Green for many years, became Professor of Orthopedic Surgery at the University of Pennsylvania in 1958. Within the past few years, four of the important Chairs of Orthopedic Surgery in this country have been filled by graduates of our Orthopedic Service.

Surgical Service

The general Surgical service is now performing annually 1,000 more operations than were performed 10 years ago, and 500 more than were performed just 5 years ago. The total in 1958 reached 2800 operations. During the past five years the research of Dr. Robert E. Gross and his colleagues, which began more than 20 years ago, involving the per-

formance of literally many hundreds of animal experiments, led to the development of a pump-oxygenator which is now in constant use on patients. It is completely reliable and yet simple to operate. It is recognized as a mechanical device of major importance which now makes possible the performance of an open operation on the dry heart and the correction of certain kinds of congenital malformations and diseased hearts for the first time. Four to five open heart operations are performed each week. More than 300 such operations have already been carried out. The enormity of this problem is illustrated by the fact that more than a quarter of a million patients in this country are suffering with congenital heart disease. The Lasker Award — given for the second time to Dr. Gross — recognized the importance of this contribution. The surgical staff has been strengthened by the addition of new full time men. In addition to Dr. Gross and Dr. Longino, Dr. Samuel Shuster and Dr. Hardy Hendren (acting this year as Chief Resident) give their total energies to the performance of simple as well as intricate surgical procedures, training of young surgeons, teaching of medical students, and research leading to the development of an understanding of surgically correctable disorders. The new operating rooms and wards and the new laboratory for surgical research have opened up greater opportunities for progress than ever before in the long and pioneering history of this department.

Division of Laboratories and Research

The Department of Pathology has continued its fundamental contributions to our understanding of the nature, the cause, and the diagnosis of diseases of the infant, the child, and the adolescent. Dr. John M. Craig has made particular contributions to a study of new metabolic disturbances in collaboration with members of the clinical services, notably Dr. David Gitlin. Dr. Craig accepted a professorship of Pathology in the University of Pittsburgh, after ten years of devoted service. He is the latest of a long series of men trained here in Pediatric Pathology in what is regarded as the pioneer department in this field, who have established new departments in universities and hospitals in many parts of the world. Dr. Gordon F. Vawters whose scholarly professional work as Associate Pathologist called attention to his ability, succeeded Dr. Craig.

The contributions of Dr. J. LeRoy Conel which have been continuous since 1931, are recorded in volume after volume concerning the development of

the brain at various age levels. His is a unique contribution used by anatomists, pathologists, pediatricians everywhere. Dr. J. Lewis Bremer completed his long awaited book on the embryologic basis of congenital malformations; he is still active at the age of 85.*

The most important expansion of the Department of Pathology in many years occurred when Dr. Betty Q. Banker was appointed neuropathologist in 1957. She has already made important contributions to the routine neuropathology of early life. Her careful work serves as a foundation for the research and practice in the fields of neurosurgery and neurology in The Children's Hospital Medical Center. Both graduate and undergraduate students are requesting training under her guidance in greater numbers than space permits. Dr. Banker's appointment to the staff gives important encouragement to the plan for the expansion of the neurological service in The Children's Hospital Medical Center.

Clinical Laboratories

Dr. Harry Shwachman and his staff perform more than 125,000 different examinations per year, about 35,000 more than just 5 years ago. This laboratory has been responsible for the development of clinical laboratory routine on the high level of research. They have developed new tests for many clinical conditions currently of great importance, such as cystic fibrosis, and act as a central laboratory for the study of pancreatic enzymes. Dr. Shwachman and his staff are responsible for the bacteriological work which identifies hospital infections. In addition they carry out the chemical studies for the immediate identification of certain poisons of importance to the doctors in the Poison Center. The Private Diagnostic Laboratory offers services to all physicians in this part of the country. The research program goes from the clinical studies and care of the patient with nutritional disturbances, including cystic fibrosis, to the chemical and bacteriological research directed toward the underlying causes of these severe and still numerous disorders of early life. The clinical laboratories participate in the study and care of literally every patient admitted to the out-patient clinics or the wards of The Children's Hospital Medical Center.

Laboratories of Infectious Disease Research

Dr. John F. Enders, his associate Dr. Sidney Kibrick, and their younger colleagues are still working on a number of important remaining problems

concerning poliomyelitis. During the past few years Dr. Enders and Dr. Samuel L. Katz have made great strides toward the perfection of a vaccine against measles. With Dr. Anna Mitus, a member of the tumor therapy group, Dr. Enders' staff has identified the long perplexing giant cell pneumonia as a disease caused by the virus of measles. This research division, barely 12 years old, was the first of the units added when the Division of Laboratories and Research was founded in 1947. The viral aspects of disease are now assuming greater importance as contributions increase from related fields.

The Children's Cancer Research Foundation

The program of the Foundation originated as an expansion of the research of the Department of Pathology and forms now the largest series of research activities in the hospital. One of its chief concerns is the search for the cause, prevention and treatment of leukemia and all other forms of cancer in infants and children. Toward this end research programs going from the patient with advanced cancer, to the chemical laboratory where new chemicals are synthesized for possible use in our young patients, include also microbiological, biochemical, biophysical, and endocrinological techniques and fields of knowledge. Collaboration is carried out with many research workers throughout The Children's Hospital and other parts of the Medical Center. A detailed description of the research programs and of the magnificently equipped new laboratories will be given elsewhere.

The tumor therapy group is responsible for the care and treatment combined with clinical investigation of more than 350 children with leukemia and other forms of advanced disseminated cancer at any one time. The outpatient clinic in the Jimmy Fund Building and Division 28 for inpatients are interwoven in the fabric of The Children's Hospital Medical Center programs as a whole. The most important advances have been made in the temporary control of acute leukemia by chemical agents alone and in a new attack on cancers of the kidney and the bone which had spread to the lungs and to other parts of the body. The discovery here that certain chemicals increase the radiosensitivity of some tumors has opened up a promising direction of treatment and research with the vigorous cooperation of the Departments of Radiology and the several Departments of Surgery.

* It is with the greatest regret that we must record the death of Dr. Bremer on December 25, 1959.

Radiology

The total number of patients studied has increased from 20,000 to 25,000 in the past five years. There has been a great increase in the number of specialized time consuming and technically difficult examinations. The greatest increase has been in the x-ray studies of the heart and large blood vessels. Since the appointment of Dr. Guilio J. D'Angio to the staff of this department, and that of The Children's Cancer Research Foundation, the number of patients given the benefit of radiotherapy has increased markedly. The great opportunity to increase the value of radiation therapy by previous or simultaneous use of chemical anti-cancer agents represents a therapeutic development of great importance.

The Department of Radiology during the past five years has given much time to problems of radiation protection for both the patient and the staff. The skillful work of Mr. Eric Hammond, who joined the staff in 1956, is responsible for this important safeguard. The magnificent new quarters of the Department of Radiology have revolutionized the routine diagnostic work, the teaching, and the research of the department. The research is concentrated particularly on problems of interest to the x-ray aspects of problems of importance to the clinical and laboratory divisions of the hospital, and to the evaluation and application of newly developed x-ray equipment. In 1956 Dr. G. B. C. Harris joined Drs. Neuhauser, Wittenborg, and D'Angio as a member of the permanent staff.

These excerpts from the activities of some of the major divisions include no reference to the greatly expanded division of dental medicine, nor to the specialized areas such as those devoted to hearing, and to many of the activities of sub-divisions of surgery, of general medicine, of orthopedic surgery. The detailed reports of all of these special professional activities, as well as those of the major departments, will appear in later publications.

Chiefs of Service

THE NURSING SERVICE AND THE SCHOOL OF NURSING

(The Nursing Service and the School of Nursing will be featured in the next issue of the "News". For this reason we publish below only a few excerpts from the report of the Director of the School of Nursing and Nursing Service, Miss Muriel B. Vesey, R.N.)

Since 1957, when the nursing staff was gravely depleted, there has been a marked increase in the number of registered nurses serving on the staff of the Hospital. This appears to be the result of two factors: a new salary scale which became effective in July, 1957; and the marked improvement in working conditions in the new Blackfan Street building. As a result the total amount of nursing care has increased as well as the percentage of care given by graduate nurses.

The supply of nurses is nearly adequate today, but the expansion of our facilities for caring for patients has resulted in the need for more employees. Further, the department is affected by the fact that patients stay in the hospital a shorter time, the severity of their illness, and the complexity of treatment with the development of new diagnostic and therapeutic techniques. Procedures formerly performed by doctors are now the responsibility of the nurse of whom much more knowledge and skill is required than even a few years ago.

The nursing department is greatly affected by changes in educational programs, especially those influencing the assignment of student nurses, though the management of patient care is also influenced by other teaching activities such as those for residents, interns and medical students. The changes that have occurred in nursing education have been toward removing the student more and more from responsibility for nursing service and at the same time toward a reduction of her hours of experience in the hospital. Not only have classroom hours increased, but an effort has also been made to put the student on a total work week which is of reasonable duration, allowing time for study and for recreation, too.

In September the graduation exercises for the School of Nursing were held with thirty-two completing the course. A new class of forty-three students was admitted, making the school total 122.

The School of Nursing has begun to accumulate its own scholarship fund because of the generosity of individuals and groups. The fund now totals \$4100, of which approximately \$3000 has been given by the Women's Committee in the past few years.

Many individuals have contributed to the work of the Nursing Service, but there is one who left the staff this year who must be mentioned. Miss Kathryn Cheney, who retired in June, made a great contribution to the Children's Hospital over the years and her devotion is recorded with gratitude.

WOMEN'S COMMITTEE AND THE VOLUNTEER SERVICE

Highlights from the Women's Committee Report, 1958 - 1959

Our membership of over four hundred women includes Active, Sustaining, Contributing and Associate Members. We have as usual been working hard through our various committees and through our outside community activities to raise money for our yearly obligations and special donations to the Hospital. We are proud to report that this year we raised over \$36,000.

Our projects within the Hospital continue to go forward: the Lunch Shop and the Gift Shop; the Surgical Dressings Group; the Patients' Library; the monthly teas for student nurses in Gardner House, and weekly coffee parties for parents of patients; the entertaining of foreign nurses and doctors; and flowers in the Chapel and throughout the Hospital with special arrangements for special occasions.

Two projects deserve particular mention. When the House of the Good Samaritan opened as a convalescent unit, it became obvious that a library was especially important for long-term patients. Now an active group of volunteers operate a branch of our Patients' Library in the Good Samaritan, encouraging non-readers to enjoy books, and supplementing the recreation program by making books yet another satisfying way to pass the time during long periods of bed rest or convalescence.

As a second project we arranged for a visit to the Prouty Garden by the Stagemobile of the Community Recreation Service this summer. "Rumpelstilskin," played by members of the Children's Theatre, was as usual a delight to the patients (many attending in wheel chairs and on stretcher beds) and to the young actors themselves, who tell us that our children are their favorite audience.

Two new activities to which we gave assistance jointly with the Hospital were the picnic for the House Staff doctors and their families on August first, and the Employees' picnic in September. We are now working closely with the Staff Wives Committee, whose Chairman is a member of our Executive Committee.

Monthly meetings of the Women's Committee were held from October through May on the second Tuesday of each month. At these meetings different members of the Hospital staff, doctors and department heads, brought us up to date on what is going on in the Medical Center.

It is of particular interest, I think, to recall in this ninetieth year of the Hospital's existence that the Women's Committee (originally called "The Ladies Aid Association of the Children's Hospital") organized itself simultaneously with the first Board of Managers. Even before the Hospital opened its doors the support of the women of the community was understood to be necessary for successful service to patients. We have come a long way from the donations of "two pairs night-drawers, flannel and calico sack, 5 yards India-rubber cloth, and a druggot for the dining room" listed in the early Annual Reports of the Hospital.

We feel that we are continuing to follow the traditions, established for us nearly a century ago, of practical assistance to and enthusiastic interest in the Hospital.

Mrs. Charles F. Hovey
Chairman, Women's Committee

VOLUNTEER SERVICE has functioned as a Hospital department since 1955, but it continues to rely upon its original sponsor, the Women's Committee, for support and guidance. Many members of the Women's Committee are in-service Volunteers, while the Women's Committee projects such as the Lunch Shop, the Gift Shop and the Patients' Libraries are assisted by Volunteers who are not, as yet, Committee members.

During the past year Volunteers served a total of 44,505 hours in such divergent areas as the post-office, laboratories, x-ray therapy, intra-mural patient transportation; and as clerical assistants in various Hospital departments.

There are three Volunteer services in the evening: Recreation Service, Information Desk relief and Volunteer Nurses' Aides. The evening Volunteers are business men and women or school teachers who donate their assistance to the Hospital after their own work day is completed.

Our Volunteers not only contribute their heads and hands but also their sympathy, loyalty and loving hearts.



THE STAFF WIVES COMMITTEE has inaugurated a furniture-lending service for the House Staff, especially for the doctors with families who come from a distance. All the furniture which has been given to the committee to date has been borrowed and more is badly needed. Anything in the way of furniture — including things for babies and small children — can be used and will be picked up if necessary.

Please call Mrs. Stewart Clifford, TWinbrook 4-1230, or the Women's Committee office at the Hospital, BEacon 2-7800, extension 434, if you have furniture to contribute.

The Yankee Bookstall,

sponsored by the Women's Committee, has started work again on its sixth annual book sale. Mrs. Alfred Thomas, Chairman, announces that the sale will take place in the spring and will be held at the Horticultural Hall from April seventh through April twelfth.

Books will be received for this sale until March first. A list of the Neighborhood Collection Points follows:

Boston.....	Mrs. John H. Johnson	512 Beacon Street	KE 6-8081
Brookline.....	Mrs. William W. Wolbach	185 Sargent Street	BE 2-4732
Cambridge.....	Mrs. Leonard Wheeler	123 Coolidge Hill	TR 6-6787
Chestnut Hill.....	Mrs. Laurence H. H. Johnson, Jr.	51 Randolph Road	AS 7-1969
Cohasset.....	Mrs. Albert L. Sylvester	1 Jerusalem Road	EV 3-0788
Concord.....	Mrs. A. Page Browne	Barnes Hill Road	EM 9-3223
Dedham.....	Mrs. Nelson M. Knight	71 River Place	DA 6-3249
Dover.....	Mrs. Stephen Little	Walpole Street	ST 5-0949
Milton.....	Mrs. Charles F. Batchelder	71 Valley Road	BL 8-2131
Needham.....	Mrs. David Wilder	599 Charles River St.	CE 7-0366
Newton.....	Mrs. Samuel L. Lowe, Jr.	36 Birch Hill Road	LA 7-7322
North Shore.....	Mrs. Frederick M. Dearborn, Jr.	Cedar Street, Wrenham	Hamilton 142
	Mrs. John E. Lawrence	South Hamilton	Hamilton 628
South Shore.....	Mrs. Arthur E. Beane, Jr.	2 Linden Street, Kingston	JU 5-2356
	Mrs. Frederic W. Mattheis	Box 56, Duxbury	WE 4-2215
Sharon.....	Mrs. J. Roswell Gallagher	105 Moose Hill Pkwy.	Sunset 4-3536
Wayland.....	Mrs. Richard Stackpole	"Aerie"	EL 8-4564
Wellesley.....	Mrs. Kenneth W. Warren	59 Ledgeways	CE 5-4278

or call Mrs. Stewart H. Clifford — TW 9-1230 if no answer, call Mrs. Roger A. Perry — LO 6-5407



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e



b



c

f

*Luncheon in the Prouty Garden,
September 11, 1959 during celebration
of the Ninetieth Anniversary
of The Children's Hospital*

a Dr. H. William Clatworthy, Jr., Chief of the Department of Pediatric Surgery, Columbus Children's Hospital, Ohio, who spoke in the morning on obstructive jaundice in infancy; with Dr. Willis J. Potts, Chief of Surgery, Children's Memorial Hospital, Chicago, who delivered the Blackfan Lecture immediately preceding the luncheon.

b Edith Batty Vincellette, Class of 1939, Dr. Robert E. Gross, Surgeon-in-Chief; and Dr. Benjamin H. Landing, Director of Pathology, Children's Hospital, Cincinnati, who spoke earlier on advances in biopsy techniques.

c Dr. William E. Ladd, Surgeon-in-Chief, Emeritus and Dr. Richard M. Smith, Physician-in-Chief, Emeritus.

d Dr. David Sherwood, President of the Children's Hospital Alumni Club, and Dr. C. D. Cook, Chief of the Medical Outpatient Department and Secretary of the Alumni Club.

e Beatrice Young Greene, Class of 1931 (far left), Frances Leary Donaghue, Class of 1933, Muriel B. Vesey, Class of 1930, Director of the School of Nursing and Nursing Service, and Nancy Harrison, Class of 1947. Ethel Leslie, Class of 1913 in background.

f Dr. Alan Ross, Physician-in-Chief of the Montreal Children's Hospital, and Dr. Charles Janeway, Physician-in-Chief, Children's Hospital Medical Center.

d



An aerial photograph of the Harvard Medical School campus in Boston. The image shows a dense cluster of multi-story buildings with flat roofs and numerous windows. A central building has a prominent dome. The surrounding area includes streets, parking lots, and some greenery. Labels with arrows point to specific buildings.

Sharon
Cardiovascular Unit

Bader Building

Children's and
Infants' Hospitals

Research
Building

Site of New Clinic
and Research Building

Harvard School
of Public Health

Main Building



House of the
Good Samaritan
and Convalescent Unit

Children's Cancer
Research Foundation
Jimmy Fund Building

The Sarah Fuller
Foundation for
Little Deaf Children

Children's Mission
to Children

Gardner House

Judge Baker
Guidance Center

THE CHILDREN'S
HOSPITAL
MEDICAL CENTER

From the Treasurer

Between October 1, 1958 and September 30, 1959, The Children's Hospital Medical Center provided:

91,399 days of care for 9,919 In-Patients
97,212 visits were made to 45 different clinics by Out-Patients
of which 19,845 visits were emergencies.

Services to these children included:

{	118,642 laboratory tests
	74,453 x-rays
	5,492 operations

The COST of all this care, including education and research was \$7,285,766.

This figure is a new high. It exceeded by \$681,561 (also a new high) what could be recovered from patients and agencies, and after crediting a record income from the Hospital's capital funds of \$682,081 and outside research grants of \$1,737,149.

We are all well aware of the problem of inflation, resulting in higher compensation for personnel and higher costs for materials. To this in the past year was added the impact of the Commonwealth's newest wage law and regulations covering overtime.

Nevertheless, the Hospital continues to give first consideration to maintaining its traditional policy of providing the best care and treatment for sick children, including those with baffling and complicated diseases which cannot be treated in their own communities, whether in the United States or abroad.

It is clear that the problem of bringing income and expenses into a more prudent balance is the most urgent one facing the Hospital. This is particularly so because further necessary expenses confront us in the near future: the provision of adequate compensation for House Officers so that we may continue to attract those of the highest ability who can meet the traditional standard of the Hospital; and the establishment of a retirement plan for Hospital personnel.

A vigorous attack upon our financial problems has been launched on two fronts: budgetary study and controls; and the development of new sources of revenue. Definite progress has already been made under the leadership of our new Director, Mr. Greer. The recent creation of a Committee on Budget and Management, whose chairman is Vernon Alden of the Harvard Business School, further reinforces the efforts being made to strengthen our financial position.

Figures for the fiscal year (pre-audited):

Earned from patient care	\$4,263,508
But not received because of allowances and patients' inability to pay	624,783
Net Patient Income	\$3,638,725
Research grants	\$1,737,149
United Community Fund Allotment	35,040
Income from capital funds	682,081
Other Hospital income	511,210
	\$2,965,480
<i>Total income</i>	6,604,205
Cost of Operating the Hospital	7,285,766
Deficit, charged against general capital funds	\$ 681,561

These figures do not include building depreciations.

*F. Murray Forbes, Jr.
Treasurer*

Of Wills And Bequests

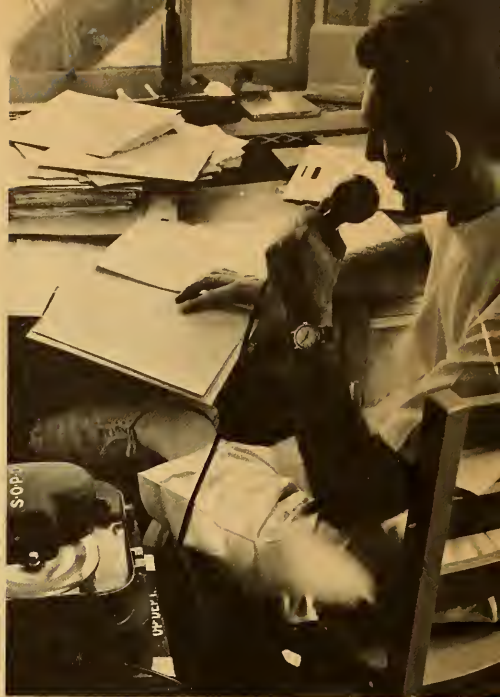
Endowment funds, particularly those which can be used at the discretion of the Trustees, are of great importance in the financial structure of The Children's Hospital Medical Center. Their existence permits long term planning with greater effectiveness and economy in operation.

The endowment of The Children's Hospital Medical Center, from which most of the unrestricted income is derived, has been built over the years largely through the bequests of generous friends. Some of those legacies have been in rather modest amounts, but, irrespective of size, every one of them represents thoughtfulness and understanding of our most pressing needs.

The process of making a bequest to The Children's Hospital Medical Center is very simple:

First, if you have already made a will, a provision can very easily be added by your counsel. Outline your wishes to him and he will do all that is necessary.

Second, if, as is sometimes done, you have drawn your own will, you may wish to add a provision yourself. If, however, you need any advice or assistance talk with your attorney or with your bank.



Third, in the case of a fund established by will or by a trust instrument which leaves any discretion to those holding the fund, it is particularly important to consult counsel if you wish to change these provisions or limit the way in which the Trustees' discretion may be exercised.

Lastly, if you have not made a will, may we suggest that when the time comes to attend to this important matter, you remember to include The Children's Hospital Medical Center as a beneficiary of your estate. Your counsel or your bank would certainly be happy to advise you.

The Treasurer of The Children's Hospital Medical Center can be reached at the Corporation office at 45 Milk Street, Boston (HU 2-6120). He will be able to advise you regarding methods of naming The Children's Hospital Medical Center as a beneficiary of your estate.



The Children's Hospital Medical Center

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1959 - 1960

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Charles A. Janeway, M.D. — Physician-in-Chief
Louis K. Diamond, M.D. — Associate Chief of the Medical Service

Chiefs of General Medical Divisions

Child Health Division
Medical Out-Patient Department
Adolescent Unit
Newborn Division
Infants' and Children's Medical Division
Private Medical Division

Robert J. Haggerty, M.D.
Charles D. Cook, M.D.
J. Roswell Gallagher, M.D.
Stewart H. Clifford, M.D.
William Berenberg, M.D.
John A. V. Davies, M.D.

Physicians

William Berenberg, M.D.
Stewart H. Clifford, M.D.
Charles D. Cook, M.D.
John A. V. Davies, M.D.
R. Cannon Eley, M.D.
Henry E. Gallup, M.D.

Harry L. Mueller, M.D.
Alexander S. Nadas, M.D.
David D. Rutstein, M.D.
David W. Sherwood, M.D.
Harry Shwachman, M.D.
Clement A. Smith, M.D.

Associate Physicians

Olga E. Allers, M.D.
John K. Brines, M.D.
John F. Crigler, Jr., M.D.
Edward C. Dyer, M.D.
Albert A. Frank, M.D.
David Gitlin, M.D.
Robert J. Haggerty, M.D.
Allen M. Hill, M.D.

John P. Hubbell, Jr., M.D.
Samuel L. Katz, M.D.
Sidney Kibrick, M.D.
Dorothea May Moore, M.D.
Robert T. Moulton, M.D.
Maurice M. Osborne, M.D.
Richmond S. Paine, M.D.
Murray Ethan Pendleton, M.D.

William Pfeffer, M.D.
Gertrud C. Reyersbach, M.D.
Edward Manning Sears, M.D.
Leonid S. Snegireff, M.D.
William J. Turtle, M.D.
John W. G. Tuthill, M.D.
William D. Winter, M.D.

Assistant Physicians

Donald M. Allen, M.D.
Peter A. M. Auld, M.D.
Irving W. Bailit, M.D.
Euan T. Blanch, M.D.
Frederick Blumenthal, M.D.
T. Berry Brazelton, M.D.
William D. Cochran, M.D.
Albert Cohen, M.D.

George T. Critz, M.D.
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James E. Drorbaugh, M.D.
Karel deHaas, M.D.

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Sidney Green, M.D.
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Sprague W. Hazard, M.D.
Mildred Jefferson, M.D.

Maurice N. Kay, M.D.
 Lucas L. Kulczycki, M.D.
 Alexander S. MacDonald, M.D.
 D. Hugh MacNamee, M.D.
 Anna Mitus, M.D.
 Charles S. Keuper, M.D. (Dermatology)
 Leon E. Kruger, M.D.
 Lawrence S. Morse, M.D.

Otto S. Nau, M.D.
 Robert J. Orme, M.D.
 Joseph Osborne, M.D.
 Julian Pearlman, M.D.
 Thomas C. Peebles, M.D.
 Howard J. Potter, M.D.
 Henry M. Putnam, M.D.
 Herbert L. Ruben, M.D.

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 Arthur J. Salisbury, M.D.
 James R. Sayre, M.D.
 Robert T. Sceery, M.D.
 Gerald B. Shattuck, M.D.
 George H. Taft, M.D.
 Harold J. Wheeler, M.D.
 Richard H. Watson, M.D.

Research Associates

Norman I. Gold, Ph.D.
 James Watson Farquar, M.D.

Adolescent Division

J. Roswell Gallagher, M.D.	Chief
C. Cabell Bailey, M.D.	Associate Physician
Richard S. Eustis, M.D.	Associate Physician
Dana L. Farnsworth, M.D.	Associate Physician
Walter W. Point, M.D.	Associate Physician
Robert P. Masland, M.D.	Associate Physician
Charles S. Gleason, M.D.	Assistant Physician
Andrew D. Guthrie, M.D.	Assistant Physician

Donald E. McLean, M.D.	Assistant Physician
Thomas J. Murphy, M.D.	Assistant Physician
Frederick A. Peirce, Jr., M.D.	Assistant Physician
John A. Spargo, M.D.	Assistant Physician
Constance D. Gallagher, A.B.	Research Associate
Carl Seltzer, Ph.D.	Research Associate
Edward P. Hunt, Ph.D.	Research Associate

Child Health Division

Martha M. Eliot, M.D.
 Harold C. Stuart, M.D.
 Robert J. Haggerty, M.D.
 Ralph A. Ross, M.D.
 Abraham S. Small, M.D.
 Leon Sternfield, M.D.
 Pauline G. Stitt, M.D.
 Lendon Snedeker, M.D.
 Isabelle Valadian, M.D.
 Hedwig Elizabeth Rose (Orner) M.D.
 Eva J. Salber, M.D.

Consulting Physician
 Consulting Physician
 Chief
 Associate Physician
 Associate Physician
 Associate Physician
 Associate Physician
 Associate Physician
 Assistant Physician
 Assistant Physician
 Assistant Physician

SPECIAL MEDICAL DIVISIONS

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Harry L. Mueller, M.D.	Allergist
Theodore Bennett, M.D.	Assistant Physician

Cardiology Division

Alexander S. Nadas, M.D.	Cardiologist
Walter T. Goodale, M.D.	Associate Cardiologist
Benedict F. Massell, M.D.	Associate Cardiologist
Abraham M. Rudolph, M.D.	Associate Cardiologist
Albert Cohen, M.D.	Assistant Cardiologist
Joseph G. Cutler, M.D.	Assistant Cardiologist
Allen L. Friedlich, M.D.	Assistant Cardiologist
Anna J. Hauck, M.D.	Assistant Cardiologist
Jacob Wallace, M.D.	Assistant Cardiologist
Richard Wolff, M.D.	Assistant Cardiologist

Good Samaritan Division

Charles A. Janeway, M.D.	Chief	Marian W. Ropes, M.D.	Associate Physician
Edward F. Bland, M.D.	Physician	Edwin O. Wheeler, M.D.	Associate Physician
Benedict F. Massell, M.D.	Physician	Conger Williams, M.D.	Associate Physician
Alexander S. Nadas, M.D.	Physician	Gabor Czoniczer, M.D.	Assistant Physician
David D. Rutstein, M.D.	Physician	Allen L. Friedlich, M.D.	Assistant Physician
George P. Sturgis, M.D.	Physician	Sprague W. Hazard, M.D.	Assistant Physician
Sylvester McGinn, M.D.	Associate Physician		

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Louis K. Diamond, M.D.	Hematologist	Donald M. Allen, M.D.	Assistant Hematologist
Fred H. Allen, M.D.	Associate Hematologist	Alan Richardson Jones, M.D.	Research Associate
Park S. Gerald, M.D.	Assistant Hematologist		

Neurology Division

Randolph K. Byers, M.D.	Neurologist
Richmond S. Paine, M.D.	Associate Neurologist

Seizure Unit

Cesare Lombroso, M.D.	Associate Neurologist
Bernard A. Berman, M.D.	Assistant Physician

Director of Postgraduate Education

R. Cannon Eley, M.D.

DEPARTMENT OF PSYCHIATRY

George E. Gardner, Ph.D., M.D.	Psychiatrist-in-Chief
Tully Benaron, M.D.	Psychiatrist
Henry Wermer, M.D.	Psychiatrist

Associate Psychiatrist

Herbert I. Harris, M.D.

Assistant Psychiatrists

Children's Hospital

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Dorothy M. Bollinger, M.D.
John R. Blitzler, M.D.
Lawrence Claman, M.D.
William M. Crowell, M.D.
Chester C. d'Autremont, M.D.
Abraham Fineman, M.D.
Richard Galdston, M.D.
Marvin Krims, M.D.
Nancy Rollins (Youse), M.D.
William Earl Stone, M.D.

Judge Baker

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John C. Coolidge, M.D.
Richard Emerson, M.D.
Alice Fleming, M.D.
Thomas Frank, M.D.
Dorothy Macnaughton, M.D.
Elizabeth Makkay, M.D.
Vera Tisza, M.D.
John Weil, M.D.
Ruth Weiss, M.D.
Lee M. Willer, M.D.
Bernard D. Woods, M.D.
Joan Zilbach, M.D.

DEPARTMENT OF DENTISTRY

Paul K. Losch, D.D.S.	Dentist-in-Chief
Charles L. Boyers, D.M.D.	Pedodontist
Melvin I. Cohen, D.M.D.	Orthodontist
Lennard T. Swanson, D.M.D.	Orthodontist
Norman T. Budde, D.M.D.	Assistant Pedodontist

Cleft Palate Dental Clinic

Edward I. Silver, D.M.D.	Associate Orthodontist
Henry C. Beebe, D.D.S.	Assistant Orthodontist
Emory Farrington, D.M.D.	Assistant Orthodontist
Abijah Pierce, D.M.D.	Assistant Orthodontist

DEPARTMENT OF ORTHOPEDIC SURGERY

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Meier G. Karp, M.D.
Paul W. Hugenberger, M.D.
Arthur W. Trott, M.D.

Associate Orthopedic Surgeons

Henry Banks, M.D.

Assistant Orthopedic Surgeons
Frank D. Bates, M.D.
Paul P. Griffin, M.D.

Junior Assistant Orthopedic Surgeon

Alan Weiner, M.D.

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Martin Wittenborg, M.D.	Radiologist
Guilio J. D'Angio, M.D.	Associate Radiologist (Radiotherapy)
G. B. C. Harris, M.D.	Associate Radiologist

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Donald D. Matson, M.D.	Neurosurgeon
Edgar A. Bering, Jr., M.D.	Associate Neurosurgeon
John Shillito, M.D.	Assistant Neurosurgeon

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Sidney Farber, M.D. — Chairman

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Sidney Farber, M.D.	Pathologist-in-Chief
Gordon F. Vawter, M.D.	Pathologist

Associate Pathologists

Betty Q. Banker, M.D. (Neurology)
Jonathen Cohen, M.D. (Orthopedics)

Psychologists

Children's Hospital

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Amelia Blackwell, M.A.
Arnold Bookspun, M.A.
Haskel Cohen, Ph.D.
Miriam Fiedler, Ph.D.
Sylvia Korstvedt, M.A.
Emma Kraidman, Ph.D.
Sara Lee Moltz, M.A.
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Geraldine Rickard, Ed.D.
Edith Meyer Taylor, Ph.D.
Albert Trieschman, M.A.
Charles Woodbury, Ph.D.
Iris Fodor, M.A.

Judge Baker Guidance Center

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Pauline Hahn, Ph.D., Research Director
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Laura Heims, Ph.D.
Irving Hurwitz, Ph.D.
Norman Prentice, Ph.D.
Edleff Schwaab, Ph.D.
Ellen Tessman, Ph.D.
Nicholas Verven, Ph.D.
Samuel Waldfogel, Ph.D.
Robert Young, Ed.D.
Esther Hill, M.A.
Arne Korstvedt, M.A.

Research Associates

William A. Caudill, Ph.D.
Sidney Croog, Ph.D.
Eric Lenneberg, Ph.D.
Barbara K. Sutherland, Ph.D.
Peter Wolff, M.D.

Lecturer in Sociology in

Department of Psychiatry

Robert Neal Wilson, Ph.D.

DEPARTMENT OF SURGERY

Robert E. Gross, M.D. — Surgeon-in-Chief

Surgeons

Luther Longino, M.D.
Donald W. MacCollum, M.D.
Samuel R. Schuster, M.D.

Associate Surgeons

Thomas W. Botsford, M.D.
Chilton Crane, M.D.
Henry W. Hudson, Jr., M.D.

Assistant Surgeons

John W. Chamberlain, M.D.
George W. B. Starkey, M.D.

Anesthesia Division

Robert M. Smith, M.D. Anesthesiologist
John Stetson, M.D. Associate Anesthesiologist
Mary Psaltopoulou, M.D. Associate Anesthesiologist

DEPARTMENT OF OTOLARYNGOLOGY

Carlyle G. Flake, M.D.
Charles F. Ferguson, M.D.
John C. Trakas, M.D.

Otolaryngologist-in-Chief
Otolaryngologist
Associate Otolaryngologist
(Chief E.N.T. OPD)

DEPARTMENT OF OPHTHALMOLOGY

Trygve Gundersen, M.D.
Sumner D. Liebman, M.D.
S. Forrest Martin, M.D.
Arthur F. Calnan, M.D.
Alfred W. Scott, M.D.

Ophthalmologist-in-Chief
Associate Ophthalmologist
Associate Ophthalmologist
Assistant Ophthalmologist
Assistant Ophthalmologist

Research Associates

Richard A. Adams, Ph. D.
Elkan R. Blout, Ph.D.
Donald L. Caspar, Ph.D.
Superabhat Chatterjee, Ph.D.
Carolyn Cohen, Ph.D.
J. LeRoy Conel, Ph.D.
Allen C. Crocker, M.D.
Isaac Djerassi, M.D.
Gerald D. Fasman, Ph.D.

Shou-Cheng-Fu, Ph.D.
Alfred H. Handler, Ph.D.
Untae Kim, Ph.D.
Lawrence Kingsland, M.D. (Biometrics)
Edmund Klein, M.D.
Cecilie Leuchtenberger, Ph.D.
Rudolph Leuchtenberger, M.D.
Robert E. McCarthy, Ph.D.
Charlotte L. Maddock, M.D.

Hans Meier, D.V.M.
Edward J. Modest, Ph.D.
Marion F. Narrod, Ph.D.
Carl R. Partanen, Ph.D.
Elizabeth R. Simons, Ph.D.
Betty Geren Uzman, M.D.
Donald B. Wetlaufer, Ph.D.
George Yerganian, Ph.D.
Laurens P. White, M.D.

Research Assistants

Virginia Binns, Sc.B.
Christianne T. DeLoze, Sc.D.

Ornella Calabi, Sc.D.
Beatrice P. Drolet, Sc.B.

Laboratory of Clinical Pathology

Harry Shwachman, M.D.	Chief
George E. Foley, Sc.D.	Bacteriologist
Irena Antonowicz, M.Sc.	Research Associate
John T. Clarke, Ph.D.	Research Associate
Morris N. Green, Ph.D.	Research Associate
Eva Fekete, M.D.	Research Assistant

Research Division of Infectious Diseases

John F. Enders, Ph.D.
Samuel L. Katz, M.D.
Sidney Kibrick, M.D.

Chief
Research Associate
Research Associate

Tumor Therapy Division

Physicians

Leonid S. Snegireff, M.D.
William Berenberg, M.D.
Harry Shwachman, M.D.

Assistant Physicians

Audrey E. Evans, M.D.
Mildred F. Jefferson, M.D.
Anna Mitus, M.D.

Radiotherapist

Giulio J. D'Angio, M.D.

Clinical Research Associate in Medicine

Miriam D. Manning, M.D.

CONSULTANTS

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Donald L. Augustine, M.D.
Harry K. Bailey, D.M.D.
Joseph S. Barr, M.D.
Hathorn P. Brown, M.D.
C. Sidney Burwell, M.D.
Allan M. Butler, M.D.
Paul A. Chandler, M.D.
Austin W. Cheever, M.D.
Stanley Cobb, M.D.

Medicine
Comparative Pathology
Dentistry
Orthopedic Surgery
Urology
Medicine
Medicine
Ophthalmology
Dermatology
Neurology

David G. Cogan, M.D.
Gustave Dammin, M.D.
Bernard D. Davis, M.D.
Felix Deutsch, M.D.
Edwin B. Dunphy, M.D.
Lewis Dexter, M.D.
Harry Eagle, M.D.
Kendall Emerson, M.D.
Albert Ferguson, M.D.
Benjamin G. Ferris, M.D.

Ophthalmology
Pathology
Microbiology
Psychiatry
Ophthalmology
Medicine
Microbiology
Medicine
Radiology
Physiology

Jacob Fine, M.D.	Anesthesiology
Sydney S. Gellis, M.D.	Medicine
J. Hartwell Harrison, M.D.	Urology
Arthur Hertig, M.D.	Pathology
William R. Hill, M.D.	Dermatology
Oscar Hirsch, M.D.	Pathology
Edward Kass, M.D.	Infectious Diseases
Owen W. Kite, D.M.D.	Dentistry
Otto Krayner, M.D.	Pharmacology
Eugene M. Landis, M.D.	Physiology
Samuel A. Levine, M.D.	Medicine
Joseph Marks, M.D.	Radiology
William Meissner, M.D.	Pathology
Jean Mayer, Ph.D., D.Sc.	Nutrition
Francis L. Moore, M.D.	Surgery
Francis C. Newton, M.D.	Surgery
Duncan Reid, M.D.	Obstetrics
Leroy A. Schall, M.D.	Otolaryngology
Albert Sloane, M.D.	Ophthalmology
Magnus Smedal, M.D.	Radiology
Arthur Solomon, M.D.	Nuclear Medicine
Somers H. Sturgis, M.D.	Gynecology
Grantley Taylor, M.D.	Neoplastic Diseases
George W. Thorn, M.D.	Medicine
Frederick H. Verhoeff, M.D.	Ophthalmology
Carl W. Walter, M.D.	Surgery
Shields Warren, M.D.	Pathology
Louis Weinstein, M.D.	Infectious Diseases
David Weisberger, M.D.	Stomatology
Thomas H. Weller, M.D.	Parasitic and Viral Diseases
Conrad Wesselhoeft, M.D.	Infectious Diseases
James L. Whittenberger, M.D.	Physiology
Paul Yakovlev, M.D.	Neuropathology

EMERITI

Albert H. Brewster, M.D.	Orthopedic Surgeon, Emeritus
Lewis W. Hill, M.D.	Physician, Emeritus and Allergist, Emeritus
Eliot Hubbard, Jr., M.D.	Physician, Emeritus
William E. Ladd, M.D.	Surgeon-in-Chief, Emeritus
William G. Lennox, M.D.	Chief of Seizure Unit, Emeritus
Thomas H. Lanman, M.D.	Surgeon, Emeritus
Robert H. Morris, M.D.	Orthopedic Surgeon, Emeritus
Charles G. Mixter, M.D.	Consultant in Surgery, Emeritus
Frank R. Ober, M.D.	Orthopedic Surgeon-in-Chief, Emeritus
James W. Sever, M.D.	Orthopedic Surgeon, Emeritus
Richard M. Smith, M.D.	Physician-in-Chief, Emeritus
Edwin T. Wyman, M.D.	Physician, Emeritus

